Harbormaster Command & Control Center (HCCC) Program Review

JLOTS R & D Symposium VI

29-31 January 2001

- G.B. Singh
- Chief, Research and Development
- PM, Force Projection

Program Objective

Old

- “Stove-pipe” Systems
- Whiteboards, magnets, markers
- Analog technology
- Shelter mounted on trailer

New

- Integrated Systems
- Electronic Charting
- Digital Technology
- ISO Shelter w/Remote Units

HCCC - System Overview

- **Function:**
  - **Provides Rapidly Transportable C4I & Asset Tracking for Army Watercraft in Fixed Port, Terminal or JLOTS Operations**
  - **Provides Enhanced Interface With other Military Forces and Civilian Operations**
- **Configuration:**
  - **One 20 ft. double-sided expandable ISO Shelter**
  - **Remote units (2), each mounted on a HMMWV**
- **Capabilities:**
  - **Continuous data & voice communications (secure and non-secure)**
  - **Executes command & control of vessel activities**
  - **Coordinates port & cargo handling assets**
  - **Collects & disseminates meteorological and bathymetric data**

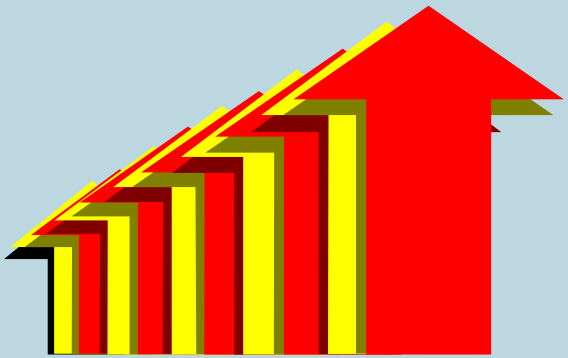
Role of HCCC in Force Projection

- **Commander's Executive Agent for Command & Control (C2) for all Watercraft Supporting JFC Operations AOR:**
  - **Supports Reception, Staging, Onward-movement and Integration (RSO&I) of Forces and Sustainment Within AOR by Enabling C2 of Terminal Operations at SPOE/SPOD and/or J/LOTS Site(s)**
  - **Supports Operational and Tactical Movement of Forces, and Follow-on sustainment,**
  - **Establishes Multiple Sites When Operating in Austere Environments**
  - **Identifies Requirements and Coordinates Timely Recovery and Salvage of Degraded Ports**

Performance

Last 12 months:

- **ORD coordinated, staffed and submitted for approval.**
- **Successful Concept Experimentation Program (CEP) conducted.**
- **Critical Operational Issues and Criteria staffed**
- **Two shelters refurbished (Ft. Eustis & U.S. Navy)**



Performance (cont'd)

Next 6 months:

- **Program Documentation development**
  - **PD**
  - **SAMP**
  - **TEMP**
- **Matrix Support expanded**
- **BOIP Feeder Data initiated**
- **Prototype development begins**

Chief of Transportation Guidance….

- Must be Deployable
- Must be Mobile
- Leverage Existing Systems/Technology (GFE-COTS)
- No Increase in Manpower

Concept Experimentation Program….

- TRADOC Funded Experiment
- Test/Evaluate Existing Systems/Technologies
- AC/RC Subject Matter Experts
- 5 Systems Tested: MSC, Navy MIUW, MTMC type shelter, Current HMO Van, RATS Tracking system

CEP Results….

“ TECO-Lee personnel observed that all data collection for effectively briefed and administered……This data should p a sound basis for developing a viable HCCC system…” TECO CEP

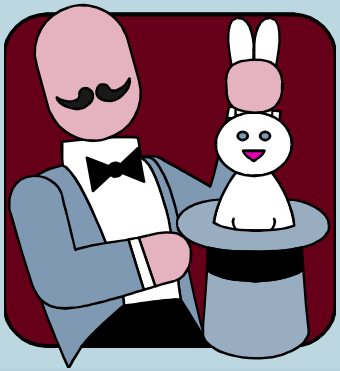
**“The CEP validated that the level of operational capabilities
prescribed in the draft HCCC ORD are appropriate, available,
affordable, and currently in use in either government or commercial applications.”** CEP DRAFT Final Report

“Each of the systems evaluated had one or more capability that could be adopted to the HCCC, but no single system contained all required capabilities….However, by selecting appropriate components from each of the different systems, it will be possible to integrate the best capabilities into the HCCC using almost exclusive existing GFE or COTS equipment.” CEP DRAFT Final Report

Acquisition Strategy

- **Prototype Contract: Sole-source to Navy**
  - **Provide standardized of communication components**

    with the C4I Upgrade Program
  - **Identify optimum configuration**
- **Production Contract: Competitive**
  - **Use “Best Value” approach to produce the proven prototype configuration**



Summary

- Once the ORD is signed, the program can move ahead
- Next steps:
  - Development of additional program documentation
  - Prototype development
- Issue(s) at this time:
  - ORD approval
  - Units fielded without proper equipment